VOLUME 21, 1997
CONTENTS INDEX

Volume 21 Number 1 **January/February 1997**

Full-length Papers

R. Asokan, M. Arumugam and P. Mullainadhan 1 Activation of prohenoloxidase in the plasma and haemocytes of the marine mussel *Perna viridis* Linnaeus

U. B. Godwin, A. Antao, M. R. Wilson, V. G. Chinchár, N. W. Miller, L. W. Clem and T. J. McConnell 13 MHC class II *B* genes in the channel catfish (*Ictalurus punctatus*)

E. Hirose, Y. Taneda and T. Ishii 25 Two modes of tunic cuticle formation in a colonial ascidian *Aplidium yamazii*, responding to wounding

J. H. W. M. Rombout, J. W. van de Wal, A. Companjen, N. Taverne and J. J. Taverne-Thiele 35 Characterization of a T cell lineage marker in carp (*Cyprinus carpio* L.)

C. B. Ibars, A. B. Rodriguez, K. Skwarlo-Sonta and R. W. Lea 47 Mitogenic effect of naturally occurring elevated plasma prolactin on ring dove lymphocytes

59 Ad Hoc Reviewers

61 Abstracts of the 8th Scientific Meeting of the Japanese Association for Developmental and Comparative Immunology (JADCI)

I Announcement

Volume 21 Number 2 **March/April 1997**

Special Issue: Abstracts of the 7th Congress of the International Society of Developmental and Comparative Immunology, July 21–25, 1997

Volume 21 Number 3 **May/June 1997**

Full-length Papers

P. J. Beresford, J. M. Basinski-Gray, J. K. C. Chiu, J. S. Chadwick and W. P. Aston 253 Characterization of hemolytic and cytotoxic *Gal*lysins: a relationship with arylphorins

J. Torreilles, M.-C. Guérin and P. Roch 267 Peroxidase-release associated with phagocytosis in *Mytilus galloprovincialis* haemocytes

E. Solon, A. P. Gupta and R. Gaugler 277 Localization of a putative inositol 1,4,5-triphosphate receptor in the *Limulus* granulocyte

E. C. McKinney and M. C. Schmale 287 Damselfish with neurofibromatosis exhibit cytotoxicity towards retrovirus infected cells

E. M. Bertram, A. R. Jilbert and I. Kotlarski 299 Optimization of an in vitro assay which measures the proliferation of duck T lymphocytes from peripheral blood in response to stimulation with PHA and CONA

R. Bullido, N. Doménech, B. Alvarez, F. Alonso, M. Babín, A. Ezquerra, E. Ortuño and J. Domínguez 311 Characterization of five monoclonal antibodies specific for swine class II major histocompatibility antigens and crossreactivity studies with leukocytes of domestic animals

Volume 21 Number 4 **July/August 1997**

Full-length Papers

D. Wittwer, C. Weise, P. Götz and A. Wiesner	323	LPS (lipopolysaccharide)-activated immune responses in a hemocyte cell line from *Estigmene acraea* (Lepidoptera)
L. Bramble and R. S. Anderson	337	Modulation of *Crassostrea virginica* hemocyte reactive oxygen species production by *Listonella anguillarum*
G. A. C. Blanco, A. M. Escalada, E. Alvarez and S. Hajos	349	LPS-induced stimulation of phagocytosis in the sipunculan worm *Themiste petricola*: possible involvement of human CD14, CD11B and CD11C cross-reactive molecules
N. E. Demers and C. J. Bayne	363	The immediate effects of stress on hormones and plasma lysozyme in rainbow trout
R. M. Wooten, M. A. Cuchens, A. L. Causey, L. William Clem and J. E. Bly	375	Effects of oleic acid on murine $CD4^+$ T cell death and anti-CD3 or superantigen induced proliferation at low temperature

Volume 21 Number 5 **September/October 1997**

Full-length Papers

L. M. Perazzolo and M. A. Barracco 385 The prophenoloxidase activating system of the shrimp *Penaeus paulensis* and associated factors

B. Robertsen, G. Trobridge and J.-A. Leong 397 Molecular cloning of double-stranded RNA inducible MX genes from Atlantic salmon (*Salmo salar* L.)

J. M. Thomson, H. W. Waldrip and M. M. Compton 413 Identification of a differential display product associated with apoptosis in chicken thymocytes

S. De Guise, J. Bernier, D. Martineau, P. Béland and M. Fournier 425 Phenotyping of beluga whale blood lymphocytes using monoclonal antibodies

M. Hamad, M. Whetsell, J. Wang and J. R. Klein 435 T cell progenitors in the murine small intestine

J. Fló and E. Massouh 443 Age-related changes of naive and memory CD4 rat lymphocyte subsets in mucosal and systemic lymphoid organs

Volume 21 Number 6 **November/December 1997**

Special Issue: Immunity and Aging

Full-length Papers

G. Wick and B. Grubeck-Loebenstein	455	Editorial
M. V. Hobbs and D. N. Ernst	461	T cell differentiation and cytokine expression in late life
R. B. Effros	471	Loss of CD28 expression on T lymphocytes: A marker of replicative senescence
K. S. Madden, S. T. Rajan, D. L. Bellinger, S. Y. Felten and D. L. Felten	479	Age-associated alterations in sympathetic neural interactions with the immune system
W. B. Ershler, S. M. Harman and E. T. Keller	487	Immunologic aspects of osteoporosis
R. Glück and A. Wegmann	501	Influenza vaccination in the elderly
J. D. Mountz and H.-C. Hsu	509	Clinical features associated with correction of T-cell senescence: Increased acute-phase response, amyloidosis and arthritis
D. Frasca and G. Doria	525	Recombinant cytokines as an approach to immune reconstitution in aging
	I	Index to Volume 21